EITEL-Mc CULLOUGH, INC.

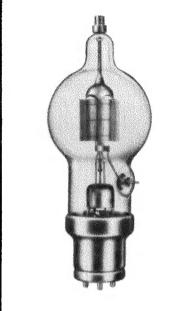
GENERAL CHARACTERISTICS

SAN BRUNO, CALIFORNIA

LOW-MU TRIODE MODULATOR **OSCILLATOR**

AMPLIFIER

										
ELECTRICAL										
Filament: Thoriated tungsten										
Voltage 5.0 volts										
Current 10.5 amperes										
Amplification Factor (Average) 14										
Direct Interelectrode Capacitances (Average)										
Grid-Plate 3.1 $\mu\mu$ f										
Grid-Filament $3.7 \mu\mu$ f										
Plate-Filament 0.7 $\mu\mu$ f										
Transconductance ($l_b=350$ ma., $E_b=3000$, $e_c=-130$) 2650 μ mhos										
Frequency for Maximum Ratings 40 mc										
MECHANICAL										
Base 4 pin, No. 5001B										
Basing RMA type 2N										



AUDIO FREQUENCY POWER AMPLIFIER AND MODULATOR Class B

Maximum Overall Dimensions: Length - - -

Diameter

Net weight - - -Shipping weight (Average)

	TYPICAL C	PERATION-	2 TUBES	MAX. RATING
D-C Plate Voltage	1500	2000	3000	3000 volts
MaxSignal D-C Plate Current, per tube*	•	•	•	350 ma.
Plate Dissipation, per tube*	•	•	•	250 watts
D-C Grid Voltage (approx.)	-4 0	-80	–175	volts
Peak A-F Grid Input Voltage	770	800	840	volts
Zero-Signal D-C Plate Current	200	150	100	ma.
MaxSignal D-C Plate Current	700	650	500	ma.
MaxSignal Driving Power (approx.)	32	28	17	watts
Effective Load, Plate-to-Plate	3700	6150	13000	ohms
MaxSignal Plate Power Output	580	800	1000	watts
*Averaged over any sinusoidal audio frequency cycle.				

- 10.125

3.813

12

2.25

inches

inches

ounces

pounds

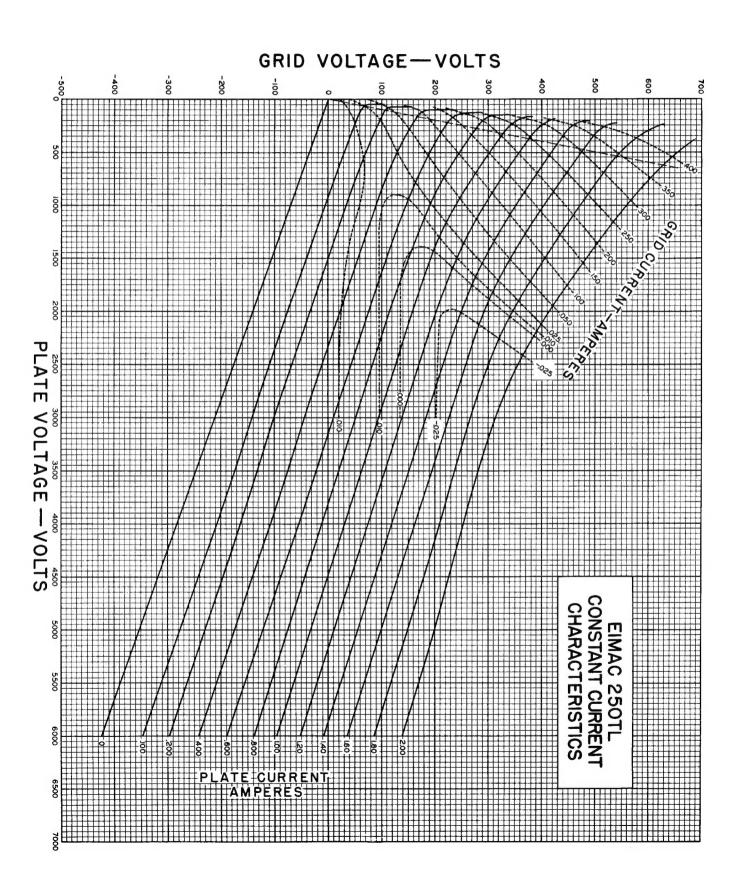
RADIO FREQUENCY POWER AMPLIFIER AND OSCILLATOR

Class-C *Telegraphy (Key down conditions without modulation)

									TYPICAL	OPERATION-1	TUBE	MAX. R.	MAX. RATING	
D-C Plate Voltage	_	-	-	-	-	_	-	-	2000	3000	4000	4000	volts	
D-C Plate Current	-	-	-	-	-	-	-	-	350	335	310	350	ma.	
D-C Grid Current	-	-	-	-	-	-	-	-	45	45	40	50	ma.	
D-C Grid Voltage	-	-	-	-	-	-	-	-	200	-3 50	-500		volts	
Plate Power Output	-	-	-	-	-	-	-	-	455	750	1000		watts	
Plate Input	-	-	-	-	-	-	-	-	700	1000	1250		watts	
Plate Dissipation -	-	-	-	_	-	-	-	-	245	250	250	250	watts	
Peak R. F. Grid Input	t۷	olta	ge,	(ap	pro	x .)	-	-	5 7 5	720	900		volts	
Driving Power, (app	rox	.)	-	-	•	-	-	-	22	29	33		watts	

^{*}The above figures show actual measured tube performance, and do not allow for variations in circuit losses.







DRIVING POWER vs. POWER OUTPUT

The three charts on this page show the relationship of plate efficiency, power output and grid driving power at plate voltages of 2000, 3000 and 4000 volts. These charts show combined grid and bias losses only. The driving power and power output figures do not include circuit losses. The plate dissipation in watts is indicated by $P_{\rm p}$.

Points A, B, and C are identical to the typical Class C operating conditions shown on the first page under 2000, 3000, and 4000 volts respectively.

